

## MODEM FAILOVER WITHOUT CALL LOSS

### Abstract of the Disclosure

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A modem, multiple modem system, and method for operating each is disclosed. Modems in a multiple-modem system save their internal state information in a remote state memory. In the event of a modem failure, a resource controller transfers data-handling to a second available modem. The second modem configures itself using internal state information for the failed modem, as gleaned from the remote state memory. It then takes over the communication channel previously assigned to the failed modem before the modem at the opposite end of the channel discerns the modem failure and prevents call loss. This invention provides redundancy for systems that employ up to several hundred or even thousands of modems, insulating users of these systems from harmful or annoying effects due to partial equipment failure.